3-15-0 95

THANKINGE 5/65

sinusoidal outputs in the frequency range 15c/s to 50kc/s. Two One output is of 6000 impedance and runners the J1 and J2, are two similar instruments which provide isolated from earth, having a maximum output level of 1W; the alternative output has an impedance of 50 connected to earth and with The J1B and J2B Signal Generators, like their well-established foreseparate output arrangements with continuous level control are proan output level of at least 500 milliwarts. vided on each instrument.

The J1B version of the instrument uses a calibrated output control to give an indication of output level, while the J2B output level is indicated on a front panel meter. Each instrument contains a resistance-capacitance Wien bridge fier. The inherent stability of the oscillator and the use of feedback the whole frequency range. Overall distortion at full output power oscillator which is connected to the output stage via a buffer amplicircuits contribute to an output which is substantially constant over is less than 2% (34dB down on fundamental). The J1Band J2B operate from a.c. power supplies of 105 to 125V and 210 to 250V, 40 to 100c/s.

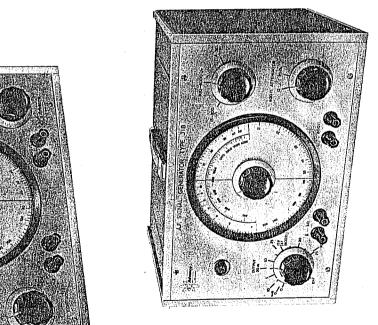


Fig. 1 Low frequency signal generators JlB and J2B

Specification

Section 2

Frequency Ranges

A - 4kc/s to 50kc/s

B - 300c/s to 4kc/s

C - 15c/s to 300c/s

Accuracy \pm (2% + 1c/s).

Output into 6000 0.1mW to 1W (0.25V to 25V), continuously vari-

Output

Accuracy: Model J1B + 2dB

Model J2B + (1dB + 1.5%)

F.S.D.)

Maximum output into 5Ω greater than 500mW, continuously variable.

Power Supplies

to 600Ω over the whole range. Where The output impedance approximates close accuracy is required the 20dB attenuator should be used.

Output Impedance

ated. This is a π pad built of close A 20dB 6000 attenuator is incorportolerance resistors.

Attenuator

When switched in circuit it provides a very accurate output impedance with a maximum output of 10mW (2.5V).

compared with fundamental, above Total harmonic and hum content as 100c/s:

Distortion

better than 34dB down (2%) at full output

better than 40dB down (1%) at 100mW.

tortion below 100c/s, but it is still There is a slight increase in dislow, down to 15c/s. J1B, J2B: 105 to 125V, 210 to 250V, a.c. only, 40 to 100c/s.

Approximately 40W.

Consumption

Dimensions

9 5/8in. deep (28.3 x 19.4 x 24.4 11 1/8in. wide, 7 5/8in. high, cm).

20 lb (9.1kg).

Weight

Finish

Light blue case and side panels with otter grain finish, medium grey painted frame with light grey front panel.

9

Section 5

C20 C21

615 C17

5 D. OUTPUT

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Section 5

Maintenance

Fig. 3 Component layout - top view

